



# Vastuullisuus strategisena valintana, Case Stora Enso

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**Forest is our  
foundation for  
value creation**

# Our business model

## Diversified product offering brings resilience

**Growth:**  
Packaging, building solutions, and new biomaterials

**Foundation:**  
Classic wood products

**Cash:**  
Paper

## Forest ownership

Suppliers

## Innovation

## Efficient use of raw materials



CO<sub>2</sub>

## Circularity

Substituting fossil-based materials with renewable alternatives

Customers

Electricity, heat

Packaging board

Pulp

Lignin

Paper

Other products, e.g. biocomposites, turpentine, tall oil

Wood products: CLT, LVL, classic sawn timber





## A dual development challenge

- Social and economic progress including poverty reduction has been substantially advanced at the expense of natural capital.
- A global transformation needs to ensure we stay within the planetary boundaries and deliver the social and economic progress needed for 10 billion people.
- Stora Enso will step up and be a relevant solution provider to that dual development challenge through innovation for more regenerative solutions

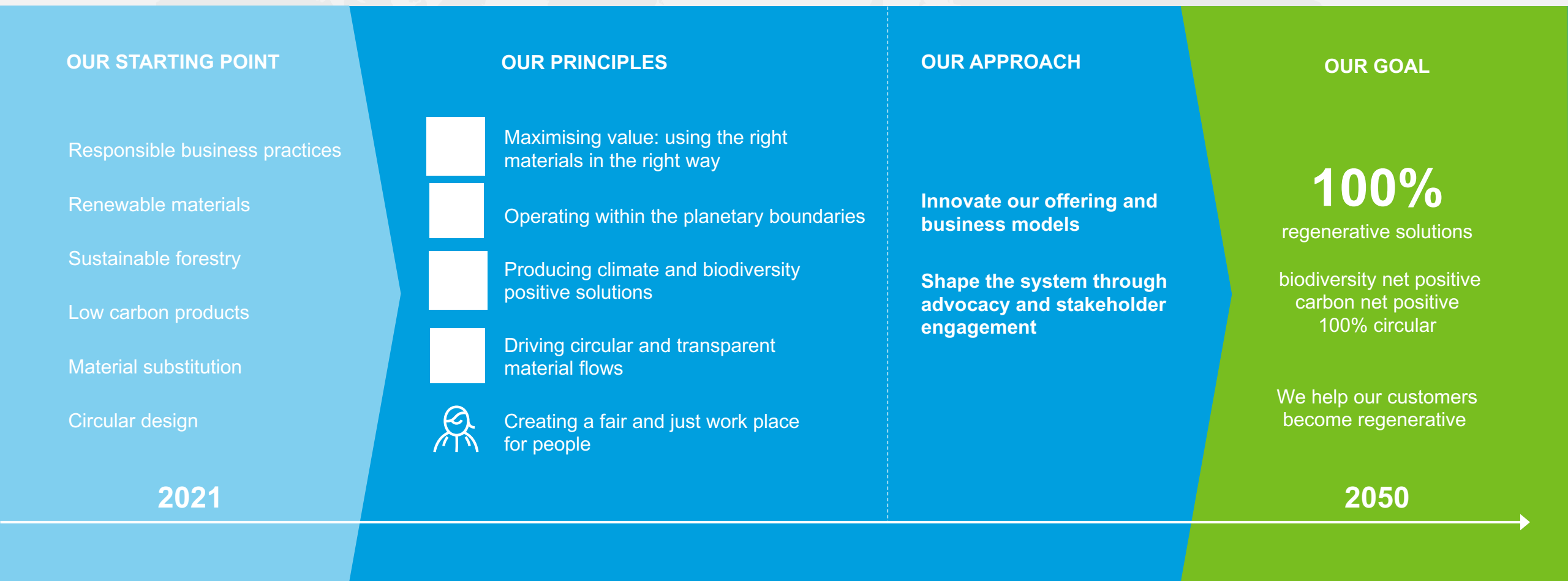
# Our goal 2050

**100%**  
regenerative  
solutions

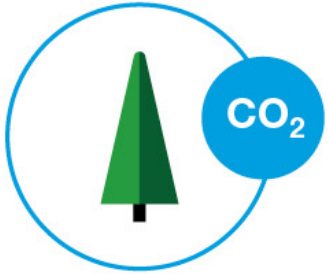


# Our sustainability transformation framework

## A step-up journey towards regenerative solutions



# Stora Enso's annual climate impact in 2021<sup>1</sup>



Our forests remove carbon<sup>2</sup>

**-1.5**

million tonnes of CO<sub>2</sub>



Our products store carbon

**-2.5**

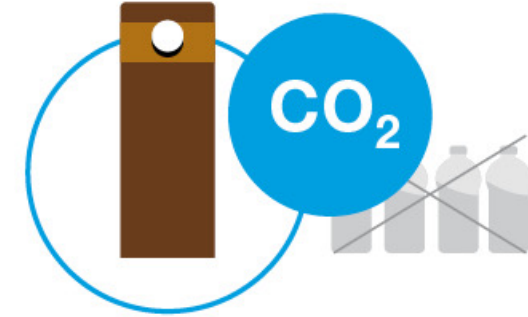
million tonnes of CO<sub>2</sub>



Our value chain emissions<sup>3</sup>

**+10.2**

million tonnes of CO<sub>2</sub>



Our products substitute fossil-based products, saving

**-17.2**

million tonnes of CO<sub>2</sub>

<sup>1</sup> Negative value indicates a net removal from atmosphere. Calculated by the Swedish University of Agricultural Sciences (SLU) based on Stora Enso's forest and production figures: Climate effects of a forestry company – including biogenic carbon fluxes and substitution effects (2021 update).

<sup>2</sup> Net annual carbon sequestration with forward-looking simulation in Stora Enso's forest assets. Excludes purchased wood from third-party forest owners, whose forests are estimated to have an additional net carbon sequestration of -5 million tonnes of CO<sub>2</sub> annually. For more information, see also Carbon in Stora Enso's forests.

<sup>3</sup> Stora Enso's fossil CO<sub>2</sub>e emissions in 2021 including direct emissions from our operations, emissions from purchased energy as well as emissions from other sources along our value chain (Scope 1, 2, and 3). Calculated based on the guidance provided by the Greenhouse Gas Protocol.

# Responsible business practices



# Emissions and energy

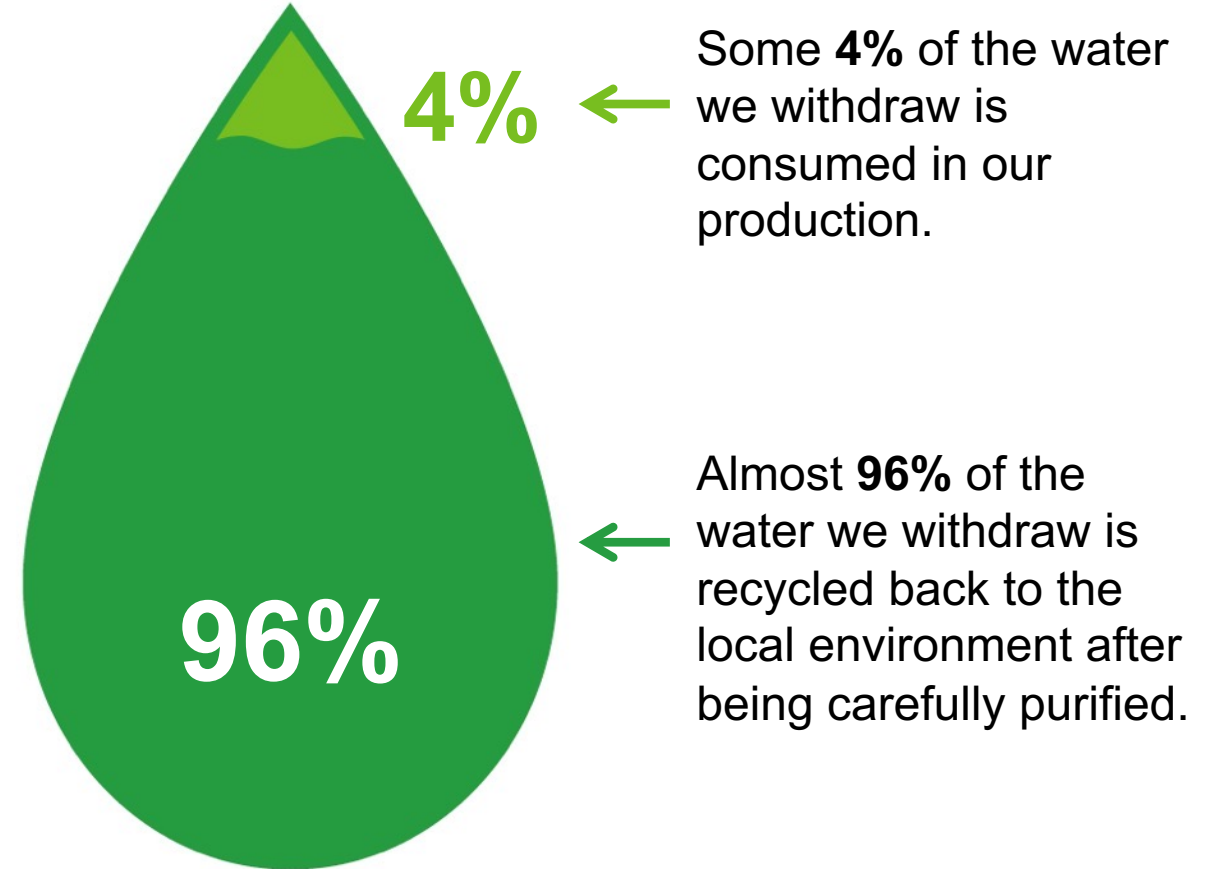
- Stora Enso combats climate change with renewable materials, resource-efficient production, and sustainable forest management.
- Most of Stora Enso's production processes are energy-intensive. The target is to achieve at least 0.8% annual energy savings by 2030.
- The central energy and water efficiency investment fund is another important tool to implement energy savings effectively. In 2021, this fund amounted to EUR 11 million.



# Water



- Water plays a central role in Stora Enso's production processes and is a key component in forest growth.
- The goal is to reduce the impact on the sites' water sources. Water is recycled within sites when possible.
- To reduce the need for water intake, the use of process water is minimised, and it is cleaned using the best available technologies.





# Materials, residuals and waste

- The world needs materials that are both renewable and recyclable – a circular bioeconomy – to combat climate change, save natural resources, and minimise waste.
- In a circular economy, more is made from less, and waste is minimised as materials are reused and recycled to maximise their value.
- 98% of the waste was recycled and utilised either internally or externally in 2021.



# People promise and expectations



**Provide a safe, diverse  
and inclusive environment**



**Drive customer value,  
performance and innovation**



**Grow to your full potential**



**Grow leadership**





# Community

- With a global presence in more than 30 countries, Stora Enso engages with local communities around the world.
- Communities living near our mills and forestry operations form one of Stora Enso's most important stakeholder groups.
- The form and frequency of our engagement with local communities is shaped by the local context.



# Safety

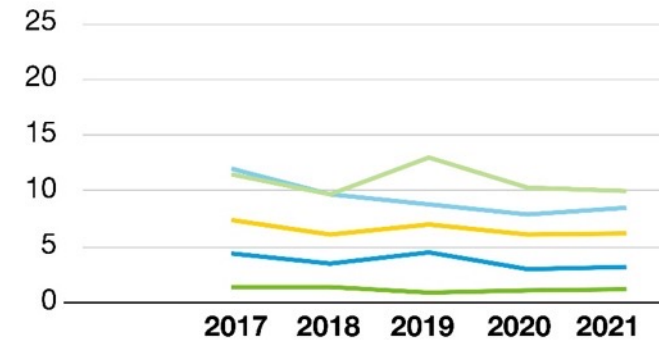


- Our goal is to provide an accident-free workplace.
- Safety starts from the top – but it's everyone's personal responsibility to work safely.
- Our approach to safety covers employees, contractors, suppliers, and on-site visitors.



## Total recordable incident rates (TRI)<sup>1</sup>

Number of incidents among our own employees per one million hours worked



China	1.4	1.4	0.9	1.1	1.2
Finland	11.5	9.7	13.0	10.3	10.0
Poland	4.4	3.5	4.5	3.0	3.2
Sweden	12.0	9.7	8.8	7.9	8.5
Group	7.4	6.1	7.0	6.1	6.2

<sup>1</sup> For Stora Enso employees, including joint operations. Figures for the four largest countries in terms of the total number of employees. Reporting based on the definitions by the Occupational Safety and Health Administration (OSHA).



# Business ethics

- We have a zero tolerance towards all forms of corruption and bribery, and we support fair competition.
- The **Stora Enso Code** guides us in creating a culture of honesty, transparency, and ethical behaviour.
  - One KPI has been the Code index – calculated based on the annual employee survey responses
- In 2021:
  - A total of 98 investigations of potential non-compliance were completed, including open cases from previous years.
  - Proven cases leading to disciplinary action, legal action and/or process improvements were identified in 26 of these.



# Human rights

- Our human rights commitment covers all our activities and business relationships including:
  - Employees
  - On-site contractors
  - Suppliers
  - Business partners
  - Local communities
- Human rights risks are taken into account before any investment decision is made and throughout our operations.
- We have defined the highest priority human rights that are the focus of our due diligence programme.







# Sustainable sourcing



- We buy materials, goods, and services from over 20 000 suppliers and contractors globally.
- We help suppliers address sustainability topics through assessments, deep dives, audits, and follow-ups.
- 96% of our supplier spend was covered by the Supplier Code of Conduct by the end of 2021.
- We use **sustainability criteria** in the tendering phase of our sourcing process.
- Our science-based target for reducing greenhouse gas emissions includes a target to reduce scope 3 GHG emissions by 50% by 2030 from the 2019 base-year.



## **THE RENEWABLE MATERIALS COMPANY**